

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Cancelled)
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54. (Cancelled)
55. (New) A device for locally contacting aortic valve leaflets with a demineralization fluid, the device comprising
a central shaft;

three distinct fluid contact elements arranged around the central shaft, each fluid contacting element comprising a porous affixed to an impermeable backing, the distal ends of the fluid contacting elements being configured to fit snugly inside of the aortic sinus;

fluid delivery elements for delivering a demineralization fluid from a source to the porous applicators;

a shunt positioned within the central shaft and concentrically mounted therein for providing blood flow from the ventricle;

an aspiration lumen formed from a gap between the shunt and the central shaft; and

a valve occluder mounted to the central shaft, the valve occluder being configured to sit flush with the ventricular side of the aortic valve leaflets.